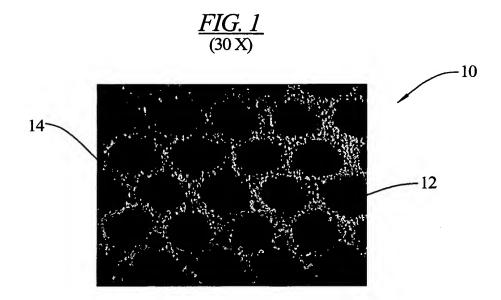
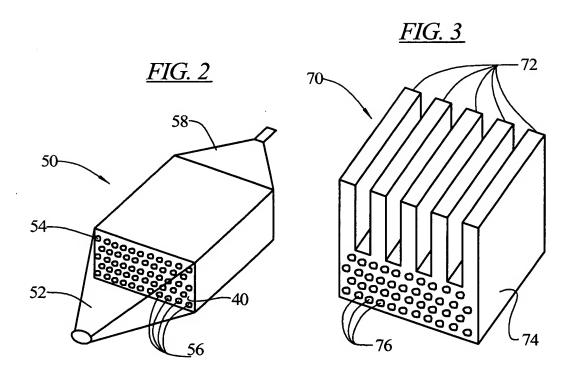


Title: Microchannel Heat Exchangers and Methods of Manufacturing the Same Inventor: Vaidyanathan, et al.
Filed: January 28, 20004
Attorney Docket No. 03248.00093

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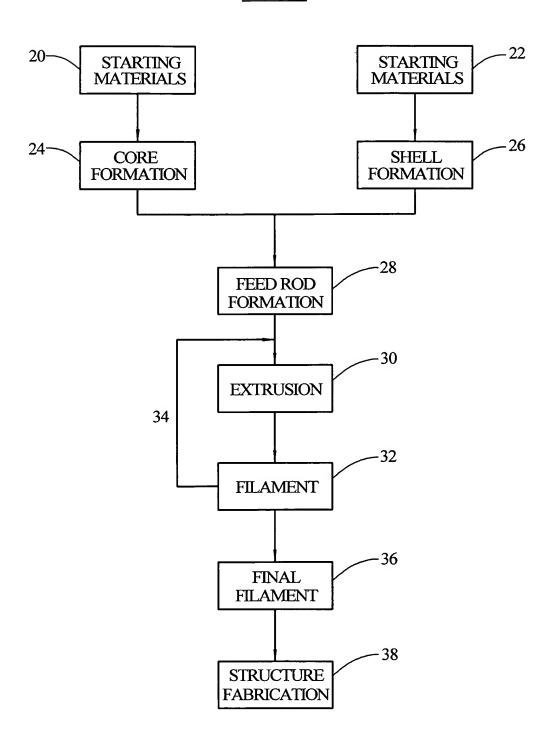


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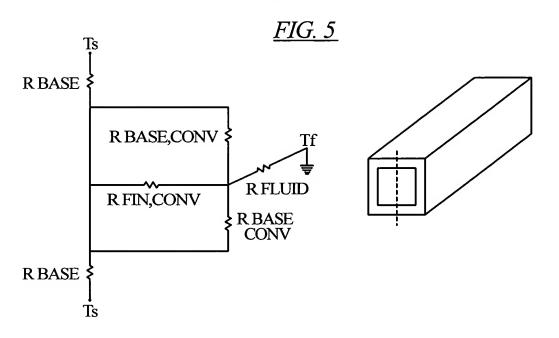
Inventor: Vaidyanathan, et al. Filed: January 28, 2004 Attorney Docket No. 03248.00093 Sheet 2 of 6

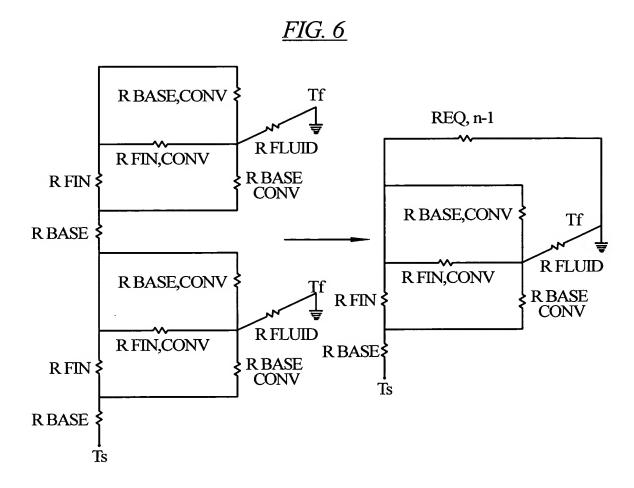
FIG. 4



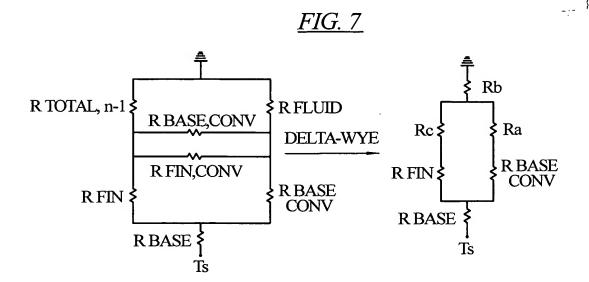
Title: Microchannel Heat Exchangers and Methods of Manufacturing the Same

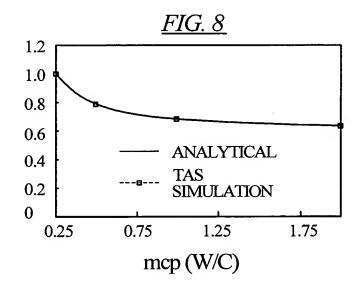
Inventor: Vaidyanathan, et al. Filed: January 28, 2004 Attorney Docket No. 03248.00093 Sheet 3 of 6

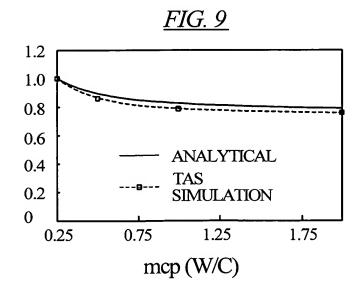




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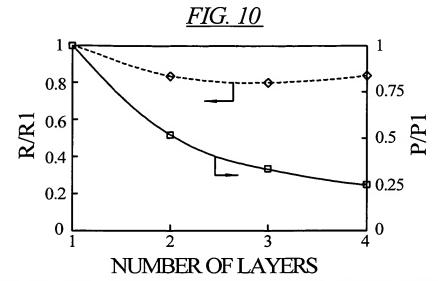




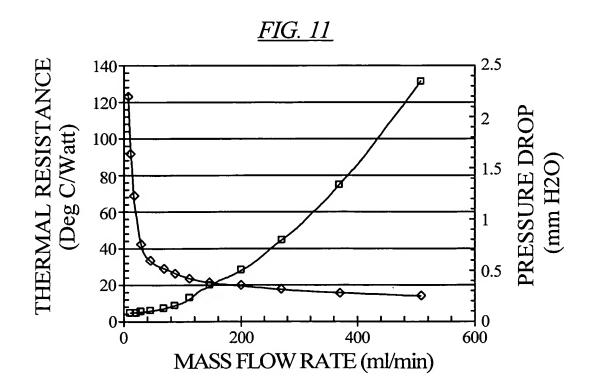


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Filed: January 28, 2004
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Optimization of number of layers with fixed overall flow rate with single-sided heating R1 is the overall thermal resistance for one layer case P1 is the overall pumping power for one layer case



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FIG. 12
THERMAL RESISTANCE VS MASS FLOW RATE

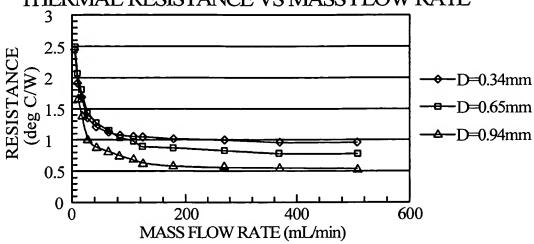


FIG. 13

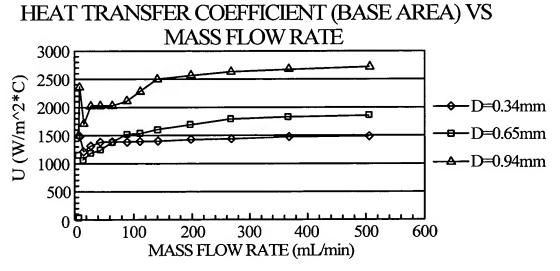


FIG. 14
HEAT TRANSFER COEFFICIENT (BASE AREA) VS
MASS FLOW RATE

